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March 8, 2002

Rhonda Etienne
Rhonda Etienne

March 8, 2002
Date

Serial No: 09/932,291
Confirmation No.: 4770
Filed: August 17, 2001
Applicant: Gary L. Cantrell et al.
Title: **MULTICOMPONENT ASSEMBLIES HAVING ENHANCED
BINDING PROPERTIES FOR DIAGNOSIS AND THERAPY**
Art Unit: 1646
Examiner: Unknown
Atty Dock: MRD-53

Cincinnati, Ohio 45202

March 8, 2002

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

In accordance with the duty of candor and good faith which is imposed by Rule 56 (37 C.F.R. §1.56), the art listed on the attached form PTO-1449 is called to the attention of the U.S. Patent and Trademark Office in connection with the above-identified patent application. Copies of the

cited references are attached hereto. No representation is made that the cited art is the only art or that the cited art represents the best art.

The Examiner is urged to consider the cited references and to make an independent decision with respect to their materiality.

No fees are believed to be due. However, if any additional fees are necessary to complete this communication, please apply them to Deposit Account 23-3000.

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

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SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. MRD/53	SERIAL NO. 09/932,2916
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICANT Cantrell, Gary L. et al.	MAR 12 2001 PATENT & TRADEMARK OFFICE RECEIVED U.S. PATENT AND TRADEMARK OFFICE 1600 RECEIVED MAY 15 2002
				FILING DATE August 17, 2001	
(Use several sheets if necessary) (37 CFR 1.98(b))				GROUP 1646	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER						ISSUE DATE	PATENTEE		CLASS	SUBCLASS	FILING DATE APPROPRIATE
	A.A	4 2 4 7 4 0 6						01/1981	Widder et al.		252	62.53	
	A.B	5 1 9 0 7 6 6						03/1993	Ishihara		424	489	
	A.C	5 3 1 2 6 1 7						05/1994	Unger et al.		424	9	
	A.D	5 5 4 2 9 3 5						08/1996	Unger et al.		604	190	
	A.E	5 7 8 5 9 6 9						07/1998	Magdassi et al.		424	181.1	
	A.F	5 9 8 5 8 5 2						11/1999	Nagy et al.		514	54	
	A.G												
	A.H												
	A.I												
	A.J												
	A.K												

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	A.L	✓WO 90/04943	05/1990	WIPO	A61B	6/00	
	A.M						
	A.N						
	A.O						
	A.P						
	A.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	A.R	✓Allen et al., <u>A new strategy for attachment of antibodies to sterically stabilized liposomes resulting in efficient targeting to cancer cells</u> , <i>Biochimica et Biophysica Acta</i> , Vol. 1237, 1995, pp. 99-108
	A.S	✓Andreoni et al., <u>Tumour photosensitization by chemotherapeutic drugs</u> , <i>Biologia</i> , Vol. 3, 1993, pp. 43-46
	A.T	✓Babich et al., <u>Technetium-99m-Labeled Chemotactic Peptides: Comparison with Indium-111-Labeled White Blood Cells for Localizing Acute Bacterial Infection in the Rabbit</u> , <i>The Journal of Nuclear Medicine</i> , Vol. 34, No. 12, December 1993, pp. 2176-2181

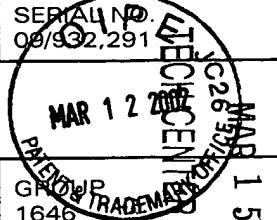
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SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. MRD/53	SERIAL NO. 09/932,291
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Cantrell, Gary L. et al.	MAR 12 2001 U.S. PATENT & TRADEMARK OFFICE 15 1646
(Use several sheets if necessary) (37 CFR 1.98(b))		FILING DATE August 17, 2001	

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE APPROPRIATE
	B.A						
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	B.L						
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	B.O						
	B.P						
	B.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	B.R	✓ de Jong and Ten Cate, <u>New ultrasound contrast agents and technological innovations</u> , Ultrasonics, Vol. 34, 1996, pp. 587-590
	B.S	✓ Forsberg et al., <u>Clinical applications of ultrasound contrast agents</u> , Ultrasonics, Vol. 36, 1998, pp. 695-701
	B.T	✓ Fritzsch et al., <u>Status of contrast media research in MRI, ultrasound and X-ray</u> , European Radiology, Vol. 2, 1992, pp. 2-13

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Cantrell, Gary L. et al.	MAR 12 2002 PATENT & TRADEMARK OFFICE RECEIVED JULY 26 2002 U.S. PATENT DOCUMENTS
(Use several sheets if necessary) (37 CFR 1.98(b))		FILING DATE August 17, 2001	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE APPROPRIATE EXAMINER 1600/2900
	C.A						5 2002
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	C.L						
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	C.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)		
	C.R	Goldberg, <u>Ultrasound Contrast Agents</u> , Clinical Diagnostic Ultrasound, Vol. 3, 1993, pp. 35-45
	C.S	Goldberg et al., <u>Ultrasound Contrast Agents: A Review</u> , Ultrasound in Medicine and Biology, Vol. 20, No. 4, 1994, pp. 319-333
	C.T	Haldemann et al., <u>Somatostatin Receptor Scintigraphy in Central Nervous System Tumors: Role of Blood-Brain Barrier Permeability</u> , The Journal of Nuclear Medicine, Vol. 36, No. 3, March 1995, pp. 403-410

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICANT Cantrell, Gary L. et al.	MAR 12 2002 PATENT TRADEMARK OFFICE 1646
(Use several sheets if necessary) (37 CFR 1.98(b))				FILING DATE August 17, 2001	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	D.A						5 2002
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	D.L						
	D.M						
	D.N						
	D.O						
	D.P						
	D.Q						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
	D.R	✓ Hilpert, <u>Contrast Agents in Diagnostic Ultrasound</u> , Mosby Year Book, Rumack et al. (eds.), Vol. 1, Chapter 3, 1992, pp. 30-42					
	D.S	✓ Hoey et al., <u>Organic Iodine Compounds As X-Ray Contrast Media</u> , International Encyclopedia of Pharmacology and Therapeutics, Vol. 1, Chapter 2, Pergamon Press, Oxford and New York, 1971, pp. 23-131					
	D.T	✓ Klibanov et al., <u>Targeting and ultrasound imaging of microbubble-based contrast agents</u> , Magnetic Resonance Materials in Physics, Biology and Medicine, Vol. 8, 1999, pp. 177-184					
EXAMINER				DATE CONSIDERED			

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Cantrell, Gary L. et al.	MAR 12 2002 PATENT & TRADEMARK OFFICE JC26
(Use several sheets if necessary) (37 CFR 1.98(b))		FILING DATE August 17, 2001	
		GROUP 1646	RECEIVED U.S. PATENT AND TRADEMARK OFFICE MAR 12 2002

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	E.A						08/17/2001
	E.B						08/17/2001
	E.C						08/17/2001
	E.D						08/17/2001
	E.E						08/17/2001
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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	E.R	Knight et al., <u>Thrombus Imaging with Technetium-99m Synthetic Peptides Based upon the Binding Domain of a Monoclonal Antibody to Activated Platelets</u> , The Journal of Nuclear Medicine, Vol. 35, No. 2, February 1994, pp. 282-288
	E.S	Kuby, <u>Antigen-Antibody Interactions</u> , Immunology, 2nd Edition, W.H. Freeman & Co., New York, 1994, Chapter 6, pp. 138-139
	E.T	Makdisi and Versland, <u>Asialoglycoproteins as Radiodiagnostic Agents for Detection of Hepatic Masses and Evaluation of Liver Function</u> , Targeted Diagnostic Therapy, Vol. 4, Chapter 7, 1991, pp. 151-162

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICANT Cantrell, Gary L. et al.	PATENT & TRADEMARK OFFICE RECEIVED MAR 12 2002 1646
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE APPROPRIATE
	F.A						MAR 1 2002
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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	F.R	Ophir and Parker, <u>Contrast Agents in Diagnostic Ultrasound</u> , Ultrasound in Medicine and Biology, Vol. 15, No. 4, 1989, pp. 319-333
	F.S	Palma and Bertolotto, <u>Introduction to ultrasound contrast agents: physics overview</u> , European Radiology, Vol. 9, Suppl. 3, 1999, pp. S338-S342
	F.T	Tenenbaum et al., <u>Radiolabeled Somatostatin Analog Scintigraphy in Differentiated Thyroid Carcinoma</u> , The Journal of Nuclear Medicine, Vol. 36, No. 5, May 1995, pp. 807-810

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICANT Cantrell, Gary L. et al.			
(Use several sheets if necessary) (37 CFR 1.98(b))				FILING DATE August 17, 2001	GROUP 1640		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	G.A						5/2002
	G.B						5/2002
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FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	G.L						
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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
	G.R	Tilcock et al., <u>Liposomal Gd-DTPA: Preparation and Characterization of Relaxivity</u> , Radiology, Vol. 171, No. 1, April 1989, pp. 77-80					
	G.S						
	G.T						
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